

RAZUMOV, V.I.

22549 Razumov, V.I. Otzyvchivost' standartnykh sortov ozimoi i yarovi pshenitsy na yarovizatsiyu i dlinu dnya. Sbornik trudov pushkinsk laboratorii vsesoyuz. in-ta rastenievodstva L., 1949 s.95-114-bibliogr. s.114

SO: LETOPIS' No. 30, 1949

RAZUMOV, V. I.

22550 Razumov, V. I. Yarovizatsiya ozimyka zlakov pri otritsatel'nykh temperaturakh.
Sbornik trudov pushkinsk. Laboratorii vsesoyuz. in-ta rasteniyevodstva. L., 1949, s
131-41 bibliogr: s. 140-41

SO: LETOPIS' No. 30, 1949

RAZUMOV, V. I.

Formative role of the environment in developing plant needs at
separate growth stages. Probl.bot. no.1:282-297 '50.

(MLRA 8:11)

(Vernalization) (Plants, Effect of temperature on) (Plants,
effect of light on)

30

BTR

4822: The Importance of the Length of Periods of Darkness in the Development of Plants. (In Russian.) V. I. Kozumov. *Doklady Akademii Nauk SSSR*, new ser., v. 80, Sept. 11, 1951, p. 269-271.
The effect of different cycles of light and darkness on several plants was studied. Data are discussed and tabulated.

RAVITSKY, V. I.

Urota i okruzheniye razvitiya rasteni (Environment and characteristics of plant development). Moscow, SSSR, 1971. 111 p.

AD: Monthly List of Russian Accessions, Vol. 7, No. 7, Oct. 1971

RAZUMOV,V.I.; OLEYNIKOVA,T.V.; IORDANOV,I.T.

Importance of nutrition and growth for the process of vernalization.
Fiziol.rast. 1 no.1:73-80 S-O '54. (MIRA8:10)

1. Vsesoyuznyy institut rasteniyevodstva Vsesoyuznoy Akademii sel'-
skokhozyaystvennykh nauk imeni Lenina, Leningrad
(Vernalization) (Botany--Physiology)

RAZUMOV, V. I.

Photoperiodic response of foxtail millet from different provinces of China. Fiziol.rast. 2 no.3:247-252 My-Je '55. (MLRA 8:11)

1. Vsesoyuznyy institut rasteniyevodstva Vsesoyuznoy Akademii sel'skokhozyaystvennykh nauk imeni Lenina.
(Millet) (Photoperiodism)

RAZUMOV, V.I.; OLEYNIKOVA, T.V.

Vernalization of winter cereals at below-freezing temperatures.
Fiziol.rast. 2 no.5:497-504 S-O '55. (MLRA 9:2)

1.Vsesoyuznyy institut rasteniyevodstva Vsesoyuznoy Akademii
sel'skokhozyaystvennykh nauk imeni Lenina, Leningrad.
(Vernalization) (Grain)

USSR/Plant Physiology. Growth and Development

Abs Jour : Ref Zhur - Biol., No 19, 1958, No 86673

Author : RIZUMOV V.I.

Inst : -

Title : Results of the Researches in the Theory of Stage Development

Orig Pub : Agrobiologiya, No 5, 89-100, 1957

Abstract : A survey. Cites: experimental data corroborating the principal postulates of the theory (characteristic duration of the vernalization stage with respect to individual species and varieties; irreversibility of developmental processes; presence of the differentiation of plants in proportion with the reaction to the day-length; possibility of development with altered rhythms; change in the reaction of plant as depending on environmental conditions in the course of ontogenesis, determinable by the development history of plant organisms; differing evolution of physiological processes as depending on the stage of ontogenesis). Note taken of the yet

Card : 1/2

RAZUMOV, V.I.

Vernalization of winter cereals by negative temperatures. Trudy po
prikl. bot., gen. i sel. 30 no. 3:23-34 '57. (MIRA 11:7)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk imeni Lenina.

(Vernalization)

(Rye)

(Wheat)

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

M-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29803

Author : Razumov, V.I.-----

Inst : -

Title : Seed Vernalization and Carrot Plants.

Orig Pub : Tr. po prikl. botan., genet. i selektsii, 1957, 31, No 2,
111-116.

Abstract : When the seeds of 12 varieties of carrots were vernalized at a temperature of 2° for 50, 65 and 80 days, only two varieties of southern origin (Leninskaya and Kazir) yielded 20-27% of the shooting plants. After storing the roots of non-shooting plants in the February test the formation of a rudimentary inflorescence was discovered in the Valeriya, Khibinskaya and Kazir varieties, in the March test in the Geranda, Moskovskaya Zimnyaya, Germanskaya, Parizhskiy Rynok and Leningradskaya varieties. The Kormovaya, Khibinskaya, Shantane and Nantskaya

Card 1/2

RAZUMOV, V.I., prof.

Latest trends in the theory of phasic development. Biol. v shkole
no.1:77-83 Ja-F '58. (MIRA 11:1)

1. Leningradskiy Vsesoyuznyy institut rasteniyevodstva.
(Botany--Physiology)

RAZUMOV, Viktor Ivanovich; NEKHLYUDOVA, A.S., red.; SAVCHENKO, Ye.V.,
tekhn.red.

[Modern theory of the phasic development of plants] Sovremennoe
sostoianie teorii stadiinogo razvitiia rastenii. Moskva, Izd-vo
"Znanie," 1959. 31 p. (Vsesoiuznoe obshchestvo po rasprostraneniu
politicheskikh i nauchnykh znani. Ser. 8. Biologiya i meditsina,
no.2) (MIRA 12:2)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk im. V.I.Lenina (for Razumov).

(Ontogeny (Botany))

6. Absorption and translocation of mineral elements specific to the leaves of plants. I I ~~REDACTED~~ and S V ~~REDACTED~~, USSR Academy of Sciences, Moscow.
7. Photosynthesis process under the conditions of an adverse water regime. S S ~~REDACTED~~, A V ~~REDACTED~~, Institute of Biochemistry, Academy of Sciences USSR, Moscow.
8. The role of oxidative enzymes in the ripening and storage of fruits. S S ~~REDACTED~~, A N ~~REDACTED~~ Institute of Biochemistry, Academy of Sciences, USSR, Moscow.
9. Dependence of mineral composition of plants on the environmental conditions. S S ~~REDACTED~~, Academy of Sciences USSR, Moscow.
10. Introduction of topics on cellular growth substances and their action. A P ~~REDACTED~~ and I I ~~REDACTED~~, V I ~~REDACTED~~ Institute of Biochemistry, Academy of Sciences, USSR, Moscow.
11. Bioactive acids and plant morphogenesis. V I ~~REDACTED~~, Institute of Biochemistry, Academy of Sciences USSR, USSR.
12. The state of deoxyribonucleic acid in the nucleus and top changes in the plant cell. V I ~~REDACTED~~, S S ~~REDACTED~~, S S ~~REDACTED~~, A P ~~REDACTED~~ and I I ~~REDACTED~~, Institute of Biochemistry, Academy of Sciences, USSR, Moscow.
13. Biochemical properties of plant cell nuclei. S S ~~REDACTED~~ and S S ~~REDACTED~~, A N ~~REDACTED~~ Institute of Biochemistry, Academy of Sciences USSR, Moscow.
14. Interrelationships between respiration and photosynthesis. O V ~~REDACTED~~, V I ~~REDACTED~~ Institute of Biochemistry, Academy of Sciences USSR, Leningrad.
15. Oxidases other than cytochrome oxidase in plants. S A ~~REDACTED~~, A N ~~REDACTED~~ Institute of Biochemistry, Academy of Sciences, USSR, Moscow.
16. On vernation problems. V I ~~REDACTED~~, Institute of Plant Physiology, Leningrad, USSR.
17. Freezing effect of microorganisms on the resistance of plants to unfavorable conditions. M Y ~~REDACTED~~, Academy of Sciences, USSR, Leningrad.
18. L'application des techniques morphologiques et chimiques des organes reproductifs embryonnaires pour la détermination des plantes en espèces. V V ~~REDACTED~~, L'Académie des Sciences de l'URSS, Moscou.
19. Particularities of the changes of physiological processes in plants correlated with frost hardiness. I I ~~REDACTED~~, A N ~~REDACTED~~, S S ~~REDACTED~~, A P ~~REDACTED~~, A I ~~REDACTED~~ and S V ~~REDACTED~~, V I ~~REDACTED~~ Institute of Biochemistry, USSR, Leningrad.
20. Photoperiodism in trees. S S ~~REDACTED~~, Laboratory of Light Physiology, Leningrad, USSR.
21. The vegetation of natural grasslands of the USSR, S V ~~REDACTED~~, Leningrad.
22. The cytology of fertilization in flowering plants. N Ozerovskaya-Nersisyan, Botanical Institute, Academy of Sciences, USSR, Leningrad.
23. The correlation between the concepts "forest ecosystem" and "forest biogeocenosis" and their importance for the classification of forests. V N ~~REDACTED~~, Forest Institute, Academy of Sciences USSR, Moscow.

Report submitted but not presented at the Int. Botanical Congress
Moscow, 1964-1965.

RAZUMOV, V.I.

BOOK EXHIBITION SOV/2713

International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958

Russkaya sovetskikh uchebnykh: polucheniye i primeneniye izotopov (Reports of Soviet Scientists: Production and Application of Isotopes) Moscow, Atomizdat, 1959. 383 p. (Series: *Uch.* Study, vol. 6) 8,000 copies printed.

Eds. (Title page): G.V. Kuvshinov, Academician and I.I. Korikov, Corresponding Member, USSR Academy of Sciences; Ed. (Inside book): Z.D. Andreyenko; Tech. Ed.: Z.D. Andreyenko.

PURPOSE: This book is intended for scientists, engineers, physicians, and biologists engaged in the production and application of atomic energy for peaceful uses; for professors and graduate and undergraduate students of higher technical schools where nuclear science is taught; and for the general public interested in atomic science and technology.

COVERAGE: This is volume 6 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy held in Geneva from September 1 to 13, 1958. Volume 6 contains 52 reports on: 1) modern methods for the production of stable radioactive isotopes and their labeled compounds; 2) methods for the separation of active isotopes in the field of chemistry, metallurgy, machine building, agriculture, and medicine; 3) consistency of ionizing radiation; 4) methods for the separation of isotopes; 5) consistency of ionizing radiation; 6) methods for the separation of isotopes; 7) consistency of ionizing radiation; 8) methods for the separation of isotopes; 9) consistency of ionizing radiation; 10) methods for the separation of isotopes; 11) consistency of ionizing radiation; 12) methods for the separation of isotopes; 13) consistency of ionizing radiation; 14) methods for the separation of isotopes; 15) consistency of ionizing radiation; 16) methods for the separation of isotopes; 17) consistency of ionizing radiation; 18) methods for the separation of isotopes; 19) consistency of ionizing radiation; 20) methods for the separation of isotopes; 21) consistency of ionizing radiation; 22) methods for the separation of isotopes; 23) consistency of ionizing radiation; 24) methods for the separation of isotopes; 25) consistency of ionizing radiation; 26) methods for the separation of isotopes; 27) consistency of ionizing radiation; 28) methods for the separation of isotopes; 29) consistency of ionizing radiation; 30) methods for the separation of isotopes; 31) consistency of ionizing radiation; 32) methods for the separation of isotopes; 33) consistency of ionizing radiation; 34) methods for the separation of isotopes; 35) consistency of ionizing radiation; 36) methods for the separation of isotopes; 37) consistency of ionizing radiation; 38) methods for the separation of isotopes; 39) consistency of ionizing radiation; 40) methods for the separation of isotopes; 41) consistency of ionizing radiation; 42) methods for the separation of isotopes; 43) consistency of ionizing radiation; 44) methods for the separation of isotopes; 45) consistency of ionizing radiation; 46) methods for the separation of isotopes; 47) consistency of ionizing radiation; 48) methods for the separation of isotopes; 49) consistency of ionizing radiation; 50) methods for the separation of isotopes; 51) consistency of ionizing radiation; 52) methods for the separation of isotopes.

16. Ribergall, A.V., V.I. Karpov, and V.I. Smirnov. Cobalt Sources of High Intensity for Radiative Action (Report No. 2294) 200
17. Ousev, M.G., Ye. Ye. Kovalov, and V.I. Popov. Gamma Radiation Inside and Outside Extended Sources (Report No. 2308) 211
18. Aglintsev, K.K., M.A. Bak, V.V. Kochetkov, Ye.G. Grahov, Z.V. Yershova, and K.A. Petrikov. Systems of Radiometric Measurement of Radioactive Isotopes (Report No. 2307) 227
19. Aglintsev, K.K., V.P. Kavtich, V.V. Mitrofanov, and V.V. Malinov. Application of Nuclear Spectroscopy Methods to Beta and Gamma-Ray Dosimetry (Report No. 2303) 237
20. Baranov, P.S., V.I. Gol'danskiy, and V.S. Rogozov. Instrument for Measuring Small Streams of High-energy Neutrons (Report No. 2305) 244
21. Gimbakov, A.A., V.I. Polikarpov, and V.A. Kulshova. Measuring and Analyzing Air Ionization by Low Concentrations of Aerosol Alpha Emitters (Report No. 2190) 248
22. Zelenitskiy, O.V., V.L. Voznesenskiy, and O.A. Semikhov. Photosynthesis Studies by Quantitative Radiometric Methods (Report No. 2155) 350
23. Bakitin, Yu.V. and A.V. Krylov. Studying the Transfer, Distribution, and Transformation of Certain Physiologically Active Compounds in Plants (Report No. 2122) 274
24. Omsar, I.I., Ye.Ye. Krasitsa, and A.Ye. Petrov-Spiridonov. Rhythm of Absorption and Secretion in Fungi (Report No. 2223) 285
25. Abramovskiy, A.I., and V.A. Shestakova. Effect of the Photospheric Microorganisms on the Absorption and Secretion of Phosphorus and Sulfur by the Seedling Roots of Woody Plants (Report No. 2312) 306
26. Razumov, V.I., and M.D. Prokofev. Absorption of Phosphorus Tracers by Cultivated Plants in Relation to Their Resistance to Cold (Report No. 2313) 315
27. Andreyev, S.V., A.V. Vaynshteyn, V.A. Molokova, and A.V. Potyomkin. Some Results of Using Radioactive Isotopes for Plant Protection (Report No. 2309) 322
28. Alloy of Zirconium and Zirconium Base by the Radioactive Isotope Method (Report No. 2306) 189

RAZUMOV, V.I.; OLEYNIKOVA, T.V.

Significance of the length of day in vernalizing plants. Agrobiologiya
no.5:666-675 S-O '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut rasteniyevodstva,
Leningrad,

(Vernalization) (Photoperiodism)

POSTNIKOV, V.S.; MAL'TSEVA, G.K.; RAZUMOV, V.I.

Temperature dependence of internal friction and the modulus of rigidity of ferromagnetic alloys. Izv. vys. ucheb. zav.; chern. met. 6 no.7:149-154 '63. (MIRA 16:9)

1. Voronezhskiy politekhnicheskii institut i Kemerovskiy pedagogicheskii institut.

(Ferromagnetism) (Metals, Effect of temperature on)

HAZUKOV, Viktor Ivanovich, doktor biolog. nauk, prof.; GONCHAROV, B.P.,
red.; BARANOVA, L.G., tekhn. red.

[Habitat and the development of plants] Sreda i razvitie rastenii.
2. izd. Leningrad, Izd-vo sel'khoz.lit-ry, zhurnalov i plakatov,
1961. 367 p. (MIRA 15:2)
(Potany--Ecology)

GHAYLAKHYAN, M.Kh., otv. red.; KRASIL'NIKOV, N.A., red.; RAZUMOV,
V.I., red.; MUKHOMISEV, A.S., kand. biol. nauk, red.;
KOCHANKOV, V.G., kand. biol. nauk, red.; VLADIMIROVA, M.G.,
red. izd-va; SAFONOV, G.I., red. izd-va; PRUSAKOVA, T.A.,
tekhn. red.; DOROKHINA, E.N., tekhn. red.

[Gibberellins and their effect on plants] Gibberelliny i ikh
deistvie na rasteniia. Moskva, Izd-vo AN SSSR, 1963. 390 p
(MIRA 16:10)

1. Chlen-korrespondent AN Arm.SSR (for Ghaylakhyan). 2. Chlen-
korrespondent AN SSSR (for Krasil'nikov). 3. Chlen-korres-
pondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk
im. V.I.Lenina (for Razumov).

(Gibberellin)

RAZUMOV, V.I., prof., doktor biol.nauk

Accelerating the development of grafted biennial vegetables. Trudy
po prikl. bot., gen. i sel. 32 no.3:87-96 '59. (MIRA 14:5)
(Vegetable gardening) (Grafting)

RAZUMOV, V.I.; LIMAR', R.S.; TAN' K-UY [T'an Ke-wei]

Effect of gibberellic acid on the development of winter grain
crops. Bot. zhur. 45 no.12:1732-1738 D '60. (MIRA 13:12)

1. Vsesoyuznyy institut rasteniyevodstva, Leningrad.
(Gibberellic acid) (Grain) (Vernalization)

RAZUMOV, V.I.

Significance of gibberellin for tuber formation. Bot.zhur. 45
no.7:939-950 J1 '60. (MIRA 13:7)

1. Vsesoyuznyy institut rasteniyevodstva, g. Pushkin.
(Gibberellins) (Tubers)

RAZUMOV, V.I.

Role of gibberelin in the development of plants. *Agrobiologia*
no. 3:406-419 My-Je '60. (MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut rasteniyevodstva,
Leningrad.

(Gibberelins)

RAZUMOV, V.I.

Acceleration of flowering in short-day plants treated with
gibberellin. Fiziol.rast. 7 no.3:354-357 '60.
(MIRA 13:6)

1. All-Union Scientific Research Institute of Plant Growing
Leningrad.

(Plants, Flowering of) (Gibberellins)

COUNTRY : USSR
 SUBJECT : Cultivated Plants. Grains. Leguminous Grains.
 Tropical Cereals.
 RES. SOURCE : Mir Zhur - Biologiya, No. 5, 1959, No. 204
 Author : Davidenko, V.I.
 A. T. : Charkov University
 TITLE : Changes in the Physiological Characteristics
 of Cereals Produced by Growth Conditions.
 C. B. PUB. : V. sbor. Vopros. metodich. sledstvi. znanitoy i
 kuznetzy, Kharkov, Ur-I, 1957, 253-262
 ABSTRACT : Experiments of the Plant Physiology Laboratory
 of the All-Union Plant Cultivation Institute
 (VIR) in 1951-1956 showed the respiration en-
 ergy of northern grown seeds to be higher than
 that of southern ones. In growing naked barley
 in various conditions of soil nutrition, air
 temperatures, and soil moisture, a direct
 correlation was discovered between soil
 moisture and germination losses during the
 following 2-3 yrs. Water supply which is
 CARD : 1/2

COUNTRY: USSR M
 CATEGORY: CULTIVATED PLANTS, Grains. Leguminous Grains.
 Tropical Cereals.
 AKB. JOUR. : REF ZHUR - BIOLOGIYA, NO. 4, 1959, No. 15573
 AUTHOR : Razumov, V.I.
 INST. : Inst. of Plant Cultivation.
 TITLE : Vernalization of Winter Bread Grains under
 Negative Temperatures.
 ORIG. PUB. : Tr. po prikl. botan., genet. i selektsii,
 1957, 30, No.3, 23-34
 ABSTRACT : Data of the Institute of Plant Cultivation for
 the years 1951-1953. The possibility was det-
 ermined of completing the stage of vernaliza-
 tion in rye Vyatka at a temperature of -4°
 with prolonged action (60 days) of -6.5° .
 Short periods of action of -6.5° temperature
 retard the development of winter rye. With
 alternation during 24-hour day of $+2^{\circ}$ and
 -6.5° , the negative temperature proves more
 effective in the process of vernalization.

CARD: 1/2

RAZUMOV, V.I.; OLEYNIKOVA, T.V.

Effect of the length of the day on the reaction of plants to
vernalization. Agrobiologiya no.6:874-882 N-D '59.
(MIRA 13:4)

1. Pushkinskiye laboratorii Vsesoyuznogo instituta rastenye-
vodstva, g.Pushkin, Leningradskoy oblasti. 2. Chlen-korrespondent
Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni Lenina
(for Razumov).

(Vernalization) (Plants, Effect of light on)

18

Hydrocyanic acid. V. A. PLOTNIKOV and V. K. RAZUMOV. Russ. 28,902, July 31A, 1930. In the prepn. of HCN from NH_3 and CO a mixt. of MgO and UO_2 is used for catalyst.

ASAC 514 METALLOGICAL LITERATURE CLASSIFICATION

02

4

Fixation of atmospheric nitrogen in the field of a Tesla transformer. V. A. Plotnikov and V. K. Razumov. *Mem. Inst. Chem. Ukrain. Acad. Sci.* 2, 23-30 (in German 30) (1935). - NO and NO₂ are produced from O₂ N₂ in the luminous field of a high-frequency Tesla transformer (9.5 amps./50 v.), the yield being 12.0% on the O₂ and theoretical as regards elec. energy. The yield is independent of temp., but rises with increase in [O₂] or [N₂]. The industrial possibilities of the reaction are discussed. H. C. A.

ASTM 15.8 METALLURGICAL LITERATURE CLASSIFICATION

BC

6-2

Preparation of aniline from benzene and ammonia in a high-frequency high-tension field.
V. K. RAGIMOV (Mos. Inst. Chem. Ukrain. Acad. Sci., 1935, 2, 281-283).—The reactions $C_6H_6 + NH_3 \rightarrow C_6H_5NH_2 + H_2O$; $C_6H_6 + NH_3 \rightarrow C_6H_5NH_2 + H_2O$; $C_6H_6 + NH_3 \rightarrow C_6H_5NH_2 + H_2O$ take place when the gas mixture is passed through a high-frequency high-tension electromagnetic field. R. T.

ASAC SLA METALLURGICAL LITERATURE CLASSIFICATION

BC

B-I-5

Reduction of oxides of iron by hydrogen and carbon monoxide in a high-frequency electromagnetic field. V. A. PLOTNIKOV and V. K. RAZUMOV (Mem. Inst. Chem. Ukrain. Acad. Sci., 1936, 3, 153-158).— Fe_2O_3 is reduced to Fe and Fe_3O_4 by H_2 or $\text{H}_2\text{-CO}$ at room temp. in a high-frequency electromagnetic field, the temp. rising to 60–80° during the reaction. CO alone does not react with Fe_2O_3 under these conditions. R. T.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

121000 HEP ONY USE

121000 HEP ONY USE

121000 HEP ONY USE

RAZUMOV, V.K.; ARUTYUNYAN, R.N.

Setting up a subsurface vacuum on the site of the Plavinas
Hydroelectric Power Station. [Trudy] NII osn. no.48:86-90
'62. (MIRA 16:8)
(Plavinas Hydroelectric Power Station—Water, Underground)

RAZUMOV, V.K. inzh.

Soil compaction by a subsurface vacuum method in the construction of
the Plavinas Hydroelectric Power Station. Gidr.stroi. 31 no.5:
28-30 My '61. (MIRA 14:6)
(Plavinas Hydroelectric Power Station—Soil stabilization)

8(2)

AUTHOR: Razumov, Vladimir Alekseyevich, Assistant, SOV/161-58-2-23/30
Chair of Power Engineering, Yaroslavl' Institute of Technology

TITLE: Selection of the Efficiency of Motors in the System of a
Regulated Electric Wave (Vybor moshchnosti dvigateley v sisteme
reguliruyemogo elektricheskogo vala)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika,
1958, Nr 2, pp 187 - 195 (USSR)

ABSTRACT: Within the electric wave system it is necessary to make
allowance for the following specific characteristics in the
operation of these machines during selection of machine capa-
city. 1) The presence of a mismatching angle between the electro-
motive force of the machine and the voltage at the rotor
connection rails. 2) Altered current values in the motor
windings as compared to the regular wiring diagram. 3) In-
creased losses of the rotor steel, especially if rotating
against the field. 4) Impaired ventilation conditions at
lower speeds. The formula (15) is derived. At a given mis-
matching angle of the machines this formula serves to determine
the necessary critical moment, according to which the motor

Card 1/2

Selection of the Efficiency of Motors in the System
of a Regulated Electric Wave

SOV/161-58-2-23/30

is selected which corresponds to the parameters and construction. Afterwards the motor is calculated with regard to heating and the actual values of momentum and mismatching angle are determined. When checking the motor heating the method of equivalent losses is applied. The experimental check of the method showed a sufficient agreement with the calculation results obtained. There are 6 figures and 7 Soviet references.

ASSOCIATION: Kafedra elektrooborudovaniya promyshlennykh predpriyatiy
Moskovskogo energeticheskogo instituta (Chair of Electrical
Equipment of Industrial Enterprises, Moscow Power Engineering
Institute)

SUBMITTED: January 21. 1958

Card 2/2

OVSYANNIKOV, Konstantin Matveyevich; RAZUMOV, V.N., kand.tekhn.nauk, retsen-
zent; VOLPYANSKIY, L.M., inzh., red.; DUGINA, N.A., tekhn.red.

[Over-all mechanization in foundries] Kompleksnaia mekhanizatsiia
v liteinykh tsekhakh. Pod red. L.M.Volpianskogo. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 76 p. (Nauchno-
populiarnaiia biblioteka rabochego-liteishchika, vyp.29)

(MIRA 14:1)

(Foundries--Equipment and supplies)

YESIN, O.A.; POPEL', S.I.; BRATCHIKOV, S.G.; RAZUMOV, V.N.; PLOTNIKOV, I.M.

Desulfurization of steel in induction furnaces with the aid of
direct current. Zhur.prikl.khim. 31 no.12:1837-1842 D '58.

(MIRA 12:2)

(Steel--Metallurgy)

(Desulfuration)

RAZUMOV, Valer'yan Nikitich; RYZHIKOV, A.A., prof., doktor tekhn.nauk,
retsenzent; LOS'KOV, D.I., inzh., red.; MARCHENKOV, I.A.,
tekhn.red.

[Foundry laboratory in the plant] Liteinaiia laboratoria na
zavode. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,
1960. 138 p. (MIRA 13:11)

(Foundry research)

RAZUMOV, V N
25(1)

PHASE I BOOK EXPLOITATION SOV/1752

Plotnikov, Ivan Mikhaylovich, Valer'yan Nikitich Razumov,
Valentina Ivanovna Oborina, Murshida Salimovna Razumova, Nikolay
Vladimirovich Kuznetsov, and Aleksey Nikiforovich Koryakov

Potochnoye izgotovleniye obolochkovykh form (Assembly Line Manu-
facture of Shell Molds) Moscow, Mashgiz, 1957. 42 p. (Series:
Obmen tekhnicheskim opytom) 4,000 copies printed.

Reviewer: L.M. Volpyanskiy, Engineer; Tech. Ed.: G.A. Sarafannikova;
Executive Ed. (Ural-Siberian Division, Mashgiz): M.A. Bezukladnikov,
Engineer.

PURPOSE: This book is intended for engineering workers in foundry
shops and design establishments concerned with the development
of industrial molding methods.

COVERAGE: This book reports on experience gained by the mixed
crews of the Uralkhimmashzavod (Ural Chemical Machinery Plant)
and the Sverdlovsk branch of the NIIKhIMMASH (Scientific

Card 1/3

Assembly Line Manufacture of Shell Molds

SOV/1752

Research Institute of Chemical Machinery) in organizing mechanized mass production of large shell molds from blends containing water glass. It deals specifically with production of molds for casting large filter press frames and plates (62 to 215 kg. and 1350 x 900 mm. and 1720 x 1080 mm.). The author also describes construction of equipment used in the above process. No personalities are mentioned. There are 14 Soviet references.

TABLE OF CONTENTS:

Preface	3
Mold Mixtures With Water Glass	5
Determining Basic Factors of the Method of Making Shell-Molds For Casting Filter Press Frames and Plates	10
Industrial Experimentation and Application of Mass Production of Filter Press Casting	20
Card 2/3	

RAZUMOV, V.M.

PLOTNIKOV, Ivan Mikhaylovich; RAZUMOV, Valer'yan Nikitich; OBORINA, Valentina Ivanovna; RAZUMOVA, Murshida Salimovna; KUZNETSOV, Nikolay Vladimirovich; KORYAKOV, Aleksey Nikiforovich; VOLFYANSKIY, L.M., inzh., retsenzent; SARAFANNIKOVA, G.A., tekhn.red.

[Assembly line manufacture of shell forms] Potochnoe izgotovlenie obolochkovykh form. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 42 p. (MIRA 11:5)
(Shell molding (Founding))

19-11-1957 17-11-1957 17-11-1957
RAZUMOV, Valerian Nikitich; ZAKHAROV, B.P., red.; SARAFANNIKOVA, G.A.,
tekhn.red.

[Molding large castings] Formovka krupnykh otlivok. Pod red.
B.P.Zakharova. Izd. 2-oe. Moskva, Gos. nauchno-tekhn.izd-vo
mashinostroit. lit-ry, 1957. 59 p. (Nauchno-populiarnaya
biblioteka rabochego-liteishchika, no.6) (MIRA 11:4)
(Molding (Founding))

PLOTNIKOV, I.M., inzh.; ~~RAZUMOV, V.N.~~, kand.tekhn.nauk; OBORINA, V.I., inzh.;
RAZUMOVA, M.S., inzh.; KORYAKOV, A.N., inzh.; KUZNETSOV, N.V., inzh.

Making shell molds for frames and plates of filter presses.
Mashinostroitel' no.10:17-19 O '57. (MIRA 10:11)
(Shell molding (Founding)) (Filter presses)

RAZUMOV, V.H., YESIN, O.A., POPEL, S.I., BRATCHIKOV, S.G., PLOTNIKOV, I.M.

"Electrochemical Desulphurization of Steel in Induction Furnace,"
lecture given at the Fourth Conference on Steelmaking, A.A. Baikov Institute of
Metallurgy, Moscow, July -1-6, 1957

RAZUMOV, V.N.

USSR/Cosmochemistry - Geochemistry. Hydrochemistry

P.

Ats Jour : Referat Zhur - Khimiya, No 2, 1957, 4189

Author : ~~Razumov, V.N.~~

Inst : Academy of Sciences USSR

Title : Weathering Shell of Northwestern Portion of Kazakh Highlands

Orig Pub : Sb.: Kora vyvetrivaniya, No 2, M., AN SSSR, 1956, 272-298

Abstract : Description of the ancient Mesozoic-Tertiary weathering shell, buried at some places under a layer of Jurassic, Tertiary and Quaternary deposits. Apparent depth of the shell attains 15-20 m. There are noted the following zones of decomposition: 1) lower -- zone of leached rocks (hydrolysis of foliated minerals with partial removal of bases and SiO_2 and oxidation of Fe); 2) zone of clayey formation of complex composition (primary minerals fully decomposed and represented by pseudo-morphoses

Card 1/2

- 76 -

RAZUMOV, V.N.; SEREBRO, V.S.; SHCHERBAK, V.V.

Heat resistance of materials for chill molds. Lit.proizv. no.7:37-
39 JI '64. (MIRA 18:4)

ROMANOV, Aleksandr Anisimovich; RAZUMOV, V.N., kandidat tekhnicheskikh nauk, re'tsenzent; VOLPYANSKIY, L.M., redaktor; DUGINA, N.A., tekhnicheskiiy redaktor

[Trimming and cleaning castings] Obrubka i ochistka otlivok. Pod red. L.M.Volpianskogo. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'stva, 1956. 62 p. (Nauchno-populiarnaya biblioteka rabochego-litel'shchika, no.14) (MLRA 10:3)
(Founding)

RAZUMOVA, V.N.

Zone of weathering in the northwestern area of the Kazakh Hills.
Kora vyvetr. no.2:272-298 '56. (MLRA 9:8)
(Kazakh Hills--Physical geography)
(Kazakh Hills--Geology, Stratigraphic)

RAZUMOV, V.N.; ZHAROV, N.T., kandidat tekhnicheskikh nauk, retsenzent;
KALETINA, A.V., inzhener, redaktor; ZAKHAROV, B.P., redaktor;
DUGINA, N.A., tekhnicheskii redaktor.

[Making molds for large castings:] Formovka krupnykh otlivok. Pod
red. B.P.Zakharova. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1954. 46 p. (Nauchno-populiarnaya biblioteka rabochego-
liteishchika, no.6) (MLRA 8:11)
(Molding(Founding))

11.001, 11.001.

"The Abrasive Resistance of Cast Iron and the Technology of
Preparing Castings for Sand Pumps and Flotation Machines." Cand
Tech Sci, Ural' Polytechnic Inst, Sverdlovsk, 1954. (IZhMia,
1954, No. 4)

SC: Su. No. 670, 23 Sep 55-Survey of Scientific and Technical
Dissertations Defended at USSR Higher Educational Institutions (15)

RAZUMOV, V. I.

Pine

Improving the quality of pine wood by cutting back the branches. Les. khoz. 5
no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September ¹⁹⁵² ~~1953~~. Unclassified.

USSR/Forestry - Forest Cultivation.

K.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 1537⁴

Author : V.P. Razumov

Inst : Bryanskiy Forestry Institute.

Title : Division and Combining (Classification) of the Parts of
a Forest.
(Vydel i ukрупneniye (gruppirovka) uchastkov lesa).

Orig Pub : Tr. Bryanskogo lesokhoz. in-ta, 1956, 7, 21-28

Abstract : It is pointed out that the division and classification
of the parts of a forest, understood to be natural
economic units of plantings and local habitat, should
be based on its features as both plantings and habitat.
One may apply as the criteria of classification and
division of afforestation such features as their origin,
form, composition, growth, fullness, productivity,

Card 1/2

17

ANDREY, V. P.

Dissertation: "Forest Cones, Their Division and Classification." Dr Agr Sci, Moscow
Forestry Engineering Inst, 19 May 54. Vechernyaya Moskva, Moscow, 10 May 54.

SC: SUL 284, 26 Nov 1954

AFANAS'YEV, A.P.; ANUCHIN, V.G.; VINOGRADOV, K.V.; GARANINA, M.M.;
GILEROVICH, M.M.; DUBROVSKIY, Ye.P.; YEVSTIGNEYEV, A.A.; IOKHVIN,
M.R.; KALMYKOV, P.M.; KRENGEL', I.TS.; LOSEV, I.G.; MAYEVSKIY,
F.M.; MAZEL', S.I.; MIZHERITSKIY, G.S.; NOVIKOV, M.I.; NAZAR'YEV,
O.V.; PCHELKINA, I.A.; RAZUMOV, V.S.; ROZENBLYUM, I.M.; SEROV, B.P.;
SKRYPNIK, T.I.; SAL'VIN, Ye.S.; SMOTRINA, V.F.; TELEPNEVA, N.S.;
FIL'CHAKOV, N.I.; KHRAPUNOVA, Ye.L.; UNDREVICH, G.S.; UR'T'YEV, P.P.;
SHILOV, A.A.; SHLYKOV, A.P.; KIRILLOV, L.M., red.; MARKOCH, M.G.,
tekhn.red.

[Regulations on the construction of minicipal telephone network lines]
Pravila po stroitel'stvu lineinykh sooruzhenii gorodskikh telefonnykh
setei. 2.izd. Moskva, Sviaz'izdat, 1962. 511 p. (MIRA 15:5)

1. Russia (1923- U.S.S.R.) Ministerstvo svyazi. Glavnoye upravleniye
kapital'nogo stroitel'stva.
(Telephone lines)

RAZUMOV, Ye.

From the practice of communist labor collectives. Vop. ekon. no.12:
134-138 D '60. (MIRA 13:12)

1. Sekretar' Kemerovskogo obkoma Kommunisticheskoy partii Sovetskogo
(Kuznetsk Basin--Coal mines and mining)
(Kuznetsk Basin--Socialist competition)

RAZUMOV, V.V.

Methodology of measuring arterial pressure in the legs.
Kardiologiya 3 no.6:83 M-9 '63. (MIRA 17:6)

1. Iz kafedry gospiatal'noy terapii (zav. - prof. I.I. Isakov)
Krasnoyarskogo meditsinskogo instituta.

RAZUMOV, Yu.

Shortcomings of regulations. Avt.transp. 40 no.12:42 D '62.
(MIRA 15:12)

(Transportation, Automotive)

RAZUMOV, Yuriy Anisimovich; ARTEM'YEV, Nikolay Arsen'yevich;
VAYNTRAUB, D.A., red.

[Molding parts with universal dies in conditions of short-run production] Gibka detalei na universal'nykh shtampakh v usloviakh melkoseriinogo proizvodstva. Leningrad, 1964. 21 p. (Leningradskii dom nauchno-tehnicheskoi propagandy. Obmen peredovym opytom. Seriya: Goriachaia i kholodnaia obrabotka metallov davleniem, no.3) (MIRA 17:7)

RAZUMOV, Yu.V.; PETKEVICH, M.A.

Clarification of melted glass by swirling with compressed air.

Stek. i ker. 18 no.11:37-38 N '61. (MIRA 15:3)

(Glass manufacture)

ALEKSANDROVSKIY, Yuriy Viktorovich; RAZUMOV, Yuriy Vasil'yevich;
SERDYUKOV, S.A., nauchnyy red.; SHAURAK, Ye.N., red.;
ERASTOVA, N.V., tekhn.red.

[Measurement of heat processes in marine steam power plants]
Teplotekhnicheskie izmereniia v sudovykh parosilovykh usta-
novkakh; spravochnoe posobie. Leningrad, Gos.soiuznoe izd-vo
sudostroitel'.promyshl., 1960. 355 p. (MIRA 13:7)
(Marine engineering) (Steam power plants)
(Measuring instruments)

BABALCHIN, Leven Arkalelovich; GOL'DENFEL'D, Aleksandr Kel'manovich;
KONTSEV, Kn.N., kand. tekhn. nauk, redtsenzent; BAZUKOV,
Yu.V., kand. tekhn. nauk, redtsenzent; CHAURAK, Ye.N., red.

[Methods for testing marine boilers] Metodika ispytaniy su-
dovyykh kotlov; Leningrad, Sudostroenie, 1965. 384 p.
(MIRA 18:3)

GUSAROV, N.N., inzh. Prinimali uchastiye: ANDREYEV, V.V., inzh.;
 RABOTNOV, B.A., inzh.; FEDOTOV, L.Ye., inzh., nauchnyy red.
 BALDIN, V.A., retsenzent; BRODSKIY, A.Ya., kand.tekhn.nauk,
 retsenzent; SAVALOV, I.G., kand.tekhn.nauk, retsenzent; LEVI,
 S.S., kand.tekhn.nauk, retsenzent; SOKOLOV, V.S., kand.tekhn.
 nauk, retsenzent; LEBEDEV, Yu.I., retsenzent; RAZUMOVA, E.D.,
 inzh., retsenzent; DOLGIKH, V.G., inzh., retsenzent; MAKSIMOV,
 K.G., red.izd-vs; PUL'KINA, Ye.A., tekhn.red.

[Provisional instructions on using gamma rays in controlling
 welded joints of reinforcements in reinforced-concrete con-
 struction elements] Vremennaya instruktsiya po kontrolyu
 svernnykh soedinenii armatury zhelezobetonnykh konstruksii
 prosvechivaniem gamma-luchami. Leningrad, Gos.izd-vo lit-ry po
 stroit., arkhitekt. i stroit.materialam, 1960. 46 p.

(MIRA 14:2)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva elektro-
 stantsiy. Tekhnicheskoye upravleniye. 2. Tsentral'nyy nauchno-
 issledovatel'skiy institut stroitel'nykh konstruksiy (for Baldin,
 Brodskiy). 3. Chlen-korrespondent Akademii stroitel'stva i arkhite-
 ktury SSSR (for Baldin). 4. VNIIMS (for Savalov, Levi). 5. Tsent-
 ral'naya nauchno-issledovatel'skaya laboratoriya Gosgortekhnadzora
 (for Sokolov). 6. Zamestitel' glavnogo sanitarnogo inspektora, Sani-
 tarnaya inspeksiya SSSR (for Lebedev). 7. TsNIP Ministerstva stroi-
 tel'stva elektrostantsiy (for Razumova). 8. Trest Sevsapenergo-
 montazh (for Dolgikh).

(Gamma rays--Industrial applications) (Reinforcing bars--Welding)

DUL'KIN, Vladimir Yakovlevich; RAZUMOVA, E.D. inzh., red.; SUBBOTINA, G.B.,
red.; VELITSYN, B.L., tekhn. red.

[Problems of the strength of welded joints of concrete reinforcement]
Voprosy prochnosti svarnykh stykov armatury zhelezobetona. Moskva,
Orgenergostroi, 1959. 68 p. (MIRA 14:11)
(Concrete reinforcement—Welding)

RABINOVICH, S.S., inzh.; RAZUMOVA, E.D., inzh.

Electrode holders for manual electric arc welding. Nov.tekh.mont.1
spets.rab.v stroi. 21 no.5:27-31 My '59. (MIRA 12:7)
(Electric welding--Equipment and supplies)

AKULOV, I.A., kand. tekhn.nauk,dots.; ALEKSEYEV, Ye.K., inzh.; GURARI, M.D., inzh.[deceased]; DMITRIYEV, I.S., kand.tekhn.nauk,dots.; YEVSEYEV, R.Ye., inzh.; ZIL'BERBERG, A.L., inzh.; LIVSHITS, L.S., kand.tekhn.nauk; MEL'NIK, V.I., inzh.; RAZUMOVA, E.D., inzh.; TARAN, V.D., prof., doktor tekhn.nauk; FAL'KEVICH, A.S., kand.tekhn.nauk; TSEGEL'SKIY, V.L., inzh.; CHERNYAK, V.S., inzh.; SHILOVTSEV, D.P., inzh.; ZVEGINTSEVA, K.V., inzh., nauchnyy red.; TYURIN, V.F., inzh.,nauchnyy red.; VOLNYANSKIY,A.K.,glav.red.; SOKOLOV,D.V.,zam.glav.red.; SEREBRENNIKOV,S.S., red.; MIKHAYLOV,K.A.,red.; STAROVEROV, I.G., red.; VOLODIN, V.Ye., red.; NIKOLAYEVSKIY, Ye.Ya.,red.; LITKINA,L.S.,red.izd-va; PEREVALYUK,M.V.,red. izd-va; RUDAKOVA, N.I., tekhn. red.

[Welding operations in building]Svarochmye raboty v stroitel'stve. Moskva,Gosstroizdat,1962. 783 p. (MIRA 15:6)
(Welding--Handbooks, manuals, etc.) (Building)

YAKOVLEV, P.Ya.; RAZUMOVA, G.P.

Photometric determination of tin by pyrocatechol violet.
Zav. lab. 31 no.11:1307-1308 '65. (MIRA 19:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii imeni Bardina.

YAKOVLEV, P.Ya.; RAZUMOVA, G.P.; MALININA, R.D.; DYMOVA, M.S.

Use of thioacetamide for the determination of impurities in metallic niobium. Zhur.anal.khim. 17 no.1:90-93 Ja-F '62. (MIRA 15:2)

1. I.P.Bardin Central Scientific Research Institute of Ferrous Metallurgy, Moscow.
(Niobium--Analysis) (Acetamide)

YAKOVLEV, P.Y.; RAZUMOVA, G.P.; MALININA, R.D.

Investigating the quantitative precipitation of lead by thioacetamide
from steel and alloy solutions. Sbor.trud. TSNIICHM no.31:183-194
'63. (MIRA 16:7)

(Alloys--Analysis) (Lead--Analysis)

L 52077-65 EWT(m)/EWP(b)/EWP(t) IJP(c) JD

ACCESSION NR: AT5012931

UR/2776/64/000/037/0009/0013

AUTHOR: Yakovlev, P. Ya.; Razumova, G.P.; Rybina, T.F.

TITLE: Determination of indium (0.002-0.020%) in manganese-base alloys

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 37, 1964. Novyye metody ispytaniy metallov; khimicheskiy kontrol' v metallurgii (New methods in the analysis of metals; chemical control in metallurgy), 9-13

TOPIC TAGS: indium determination, manganese alloy, manganese alloy analysis, spectrophotometry, indium hydroxyquinolate

ABSTRACT: In the spectrophotometric determination of indium in a manganese-base alloy with a high content of chromium, nickel, iron, copper and other elements, the most suitable reagent for indium is 8-hydroxyquinoline. The indium ion is completely extracted from aqueous solution at pH 3.2-4.5 by 8-hydroxyquinoline in chloroform, with the formation of a yellow color which can be adequately measured at 396-400 mμ and which is stable for a long time. Although aluminum also forms a yellow complex compound with 8-hydroxyquinoline, it was found that an Al content of 0.6 to 2% does not interfere with the indium determination. A technique was thus developed for determining indium by measuring the

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L 52077-65

ACCESSION NR: AT5012931

color intensity of the yellow indium hydroxyquinolate complex. The preliminary separation of indium from associated elements is carried out by using ammonia with iron hydroxide and an oxidized Stenhouse reagent. It was shown that chloroform extracts of indium hydroxyquinolate obey Beer's law over a wide concentration range. By using this method, one can determine the indium content of alloys containing up to 0.002% In within $\pm$ 15-20%. Orig. art. has: 1 figure and 3 tables.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii, Moscow (Central Scientific Research Institute for Ferrous Metallurgy)

SUBMITTED: 00

ENCL: 00

SUB CODE: IC, MM

NO REF SOV: 004

OTHER: 000

2/2
Card

YAKOVLEV, Pavel Yakovlevich; RAZUMOVA, Galina Petrovna; VENETSKIY,
S.I., red.izd-va; OBUKHOVSKAYA, G.P., tekhn. red.

[Thioacetamide as a substitute for hydrogen sulfide in
the analysis of metals] Tioatsetamid zamenitel' serovo-
doroda v analize metallov. Moskva, Metallurgizdat, 1963.
157 p. (MIRA 16:6)

(Metals--Analysis) (Acetamide)

S/081/61/000/020/036/089
B117/B147

AUTHORS: Buyanov, N. V., Razumova, G. P., Sorokina, N. N., Yakovlev, P. Ya.

TITLE: Spectrochemical method of determining small impurities in metallic chromium

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1961, 124, abstract 20D146 (Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii, no. 19, 1960, 65 - 71)

TEXT: In the analysis of metallic chromium, the chemical concentration of impurities (Cd, Sb, Bi, Pb, Sn) is conducted by treating acid hydrogen sulfide solutions with the use of copper as a collector. For producing standards, 3 g of pure metallic chromium is mixed in a quartz glass with the determinable elements and 30 - 40 milliliters of HCl, and heated until dissolution. The resulting solutions are concentrated by evaporation. Then, 20 milliliters of 50% citric acid solution, 5 milliliters of HCl, and 3 milliliters of CuNO_3 solution (10 mg/milliliter) are added. The solution

Card 1/3

Spectrochemical method of determining...

S/081/61/000/020/036/089
B117/B147

is adjusted to pH = 2 - 3 by means of NH_4OH , and filled up with 180 milliliters of water. H_2S is passed through for 20 min at a rate of 80-100 bubbles a minute. After 1 hr, the precipitates are filtered, washed with a solution containing H_2S and CH_3COONa , dried, ashed, and calcinated at 600°C ; thereafter, the standards are ready for use. Samples are treated similarly but without adding solutions of elements. The resulting concentrate weighing ~50 mg is mixed with carbon powder (1:1), and introduced in the opening of a carbon electrode (3.4 mm diameter and 9 mm depth). The electrode diameter is reduced to 2 mm near the opening. The spectrum is excited in an a-c arc at 12 a, and photographed (30 sec) on a medium-sized ИСП-22 (ISP-22) spectrograph with a 0.01 slit and an electrode spacing of 1.2 mm. Curves of evaporation of substances from the electrode were studied. Analysis is performed by the method of photometric interpolation with respect to the lines (in Å): Pb 2614 - Cu 2630, Bi 3067 - Cu 3088, Sb 2598 - Cu 2630, Sn 2429 - Cu 2441, and Cd 2288 - Cu 2276. The calibration curves are straight for the concentration range of $1 \cdot 10^{-4}$ - $1 \cdot 10^{-2}\%$. Depending on the element, the analytical error is $\pm 10 - 19\%$. The results

Card 2/3

Spectrochemical method of determining... S/081/61/000/020/036/089
B117/B147
of the spectrum analysis and of other analytical methods are in satisfactory agreement. [Abstracter's note: Complete translation.]

Card 3/3

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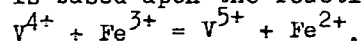
AUTHORS: Yakovlev, P. Ya., Razumova, G. P.

SOV/32-24-12-3/45

TITLE: Photocolorimetric Orthophenanthroline Method for Determining Vanadium in Metallic Chromium (Fotokolorimetricheskiy ortofenantrolinovy metod opredeleniya vanadiya v metallicheskom khrome)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 12, pp 1430-1431 (USSR)

ABSTRACT: The most convenient method for separating small amounts of vanadium from chromium is to use cupferron in sulfuric acid solution; iron is added to act as a collector (Ref 1). Instead of dipyrityl (Ref 2) the present method uses orthophenanthroline (I) for the colorimetric determination of the vanadium obtained in the precipitation separation. The method is based upon the reaction:



The Fe^{2+} so produced is then determined photocolorimetrically using (I). A FEK-M photocolorimeter with green light filter was used. The experimental results obtained (Table) show that the method gives satisfactory results and an accuracy of $\pm 10 - 15\%$ (with 0.0016 - 0.0080% V). The calibration curve is prepared from colored standard solutions having an iron content of 0.01 - 0.1 mg/100 ml. The analytical procedure is given. There are 1 table and 2 Soviet references.

Card 1/2

SOV/32-24-12-5/45
Photocolorimetric Orthophenanthroline Method for Determining Vanadium in Metallic
Chromium

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii
(Central Scientific Research Institute for Ferrous Metallurgy)

Card 2/2

YAKOVLEV, P.Ya.; RAZUMOVA, G.P.; DYMOVA, M.S.

Determination of tin nickel and iron metals. Sbor. trud. TSNIICHM
no.24:168-171 '62. (MIRA 15:6)
(Nickel--Analysis) (Iron--Analysis) (Tin--Analysis)

5(2)

SOV/32-25-9-5/53

AUTHORS: Yakovlev, P. Ya., Razumova, G. P., Malinina, R. D.

TITLE: Polarographic Determination of Impurities in Steel on Nickel Basis by Means of a Co-precipitation With Methyl Violet

PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 9, pp 1039-1041 (USSR)

ABSTRACT: A method for the quantitative co-precipitation of impurities with methyl violet (I) (of the triphenylmethane series, recommended by V. I. Kuznetsov (Refs 1-3)) and a subsequent polarographic determination of zinc, cadmium, lead, and bismuth was elaborated. This method is based upon a simultaneous precipitation of zinc thiocyanate of the iodides of cadmium, lead and bismuth. The experiments showed that zinc with (I) is precipitated quantitatively in the presence of thiocyanate and that for bismuth, satisfying results are also obtained with a precipitation in the presence of potassium iodide (II) and ammonium thiocyanate (III) (Table 1, results for Bi and Cd). Lead is precipitated quantitatively in form of methyl violet salt in the presence of iodides. (I), (II), and (III) were ad-

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SOV/32-25-9-5/53

Polarographic Determination of Impurities in Steel on Nickel Basis by Means of a Co-precipitation With Methyl Violet

ded in the ratio 1 : 10 : 10 for the joint precipitation of the impurities. The analysis is concluded by polarographing on a self-recording integral-differential TsLA polarograph with an electrolyzer of the system Gintsvetmet. The accuracy of the method was tested by a determination of impurities added in definite quantities to the solution of the alloy (Table 2), and the determination error was ascertained to amount to 10 to 15% relatively. The course of an analysis is given. There are 2 tables and 6 Soviet references.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of Ferrous Metallurgy)

Card 2/2

YAKOVLEV, P.Ya.; RAZUMOVA, G.P.; MALININA, R.D.

Polarographic determination of additions in nickel alloys by
coprecipitation with methyl violet. Zav.lab. 25 no.9:1039-1041
'59. (MIRA 13:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii.
(Nickel alloys--Analysis) (Polarography)

MITROFANOV, V.S.; RAZUMOVA, I.L.

Morphological analysis of the effect of cycloserine on experimental tuberculosis in white mice. Antibiotiki 5 no.2:70-73 Mr-Ap '60.
(MIRA 14:5)

1. Otdel eksperimental'noy khimioterapii (zav. - prof. A.M.Chernukh)
Instituta farmakologii i khimioterapii ~~AMN~~ SSSR.
(TUBERCULOSIS) (ISOXAZOLIDINONE)

RAZUMOVA, I. I.

Effect of brief series of introducing therapeutic doses of DL-cycloserine on the conditioned reflex activity in rats. Zhur. vys. nerv. deiat. 12 no.2:338-343 Mr-Apr '62.

(MIRA 17:12)

1. Otdel eksperimental'noy khimioterapii instituta farmakologii i khimioterapii AMN SSSR, Moscow.

KASUMOVA, I.I.

Comparative study of functional and morphological changes in the central nervous system of white rats during the course of intermittent administration of di-cycloserine. Zhur.vys.nerv.dalat. 21 no.6:1090-1099 N.D '64. (MIRA 18:6)

1. Otdel eksperimental'noy khimioterapii Instituta farmakologii i khimioterapii SSSR,

HAZUMOVA, I.L.

Comparative study of functional and morphological changes under the action of DL-cycloserine on the central nervous system. Zhur. vys.nerv.deiat. 13 No.2: 52-60 Mr-Apr '63. (MIRA 16:9)

1. Department of Experimental Chemotherapy, Institute of Pharmacology and Chemotherapy, U.S.S.R. Academy of Medical Sciences Moscow.

(ISOKAZOLIDINONE—PHYSIOLOGICAL EFFECT)
(CONDITIONED RESPONSE)

KAPLUN, N.A.; NEVSTRUYEVA, V.S.; OBROSOV, A.N.; RAZUMOVA, I.L.;
CHERNUKH, A.M.

Effect of a galvanic current on the inflammation focus; experimental examination. Vop.kur., fizioter. i lech. fiz. kul't.
27 no.5:417-420 S-0'62. (MIRA 16:9)

1. Iz otdela eksperimental'noy khimioterapii (zav. - prof. A.M.Chernukh) Instituta farmacologii i khimioterapii (dir. deystvitel'nyy chlen AMN SSSR prof. V.V. Zakusov) i otdela fizioterapii (zav. - prof. N.A.Vinogradov) Instituta kurortologii i fizioterapii (dir. - kand.med. nauk G.N. Pospelova)Minist'rstva zdravookhraneniya RSFSR.
(ELECT. THERAPEUTICS) (FOCAL INFECTION)

MITROFANOV, V.S.; RAZUMOVA, I.L.

Pathomorphology of experimental tuberculosis in white
mice treated with thianide. Probl. tub. 41 no.5:65-71
'63. (MIRA 17:1)

1. Iz otdela khimioterapii (zav. - prof. A.M. Chernukh)
Instituta farmakologii i khimioterapii (dir. - deystvitel'-
nyy chlen AMN SSSR prof. V.V. Zakusov) AMN SSSR, Moskva.

14-57-6-12715
Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,
p 131 (USSR)

AUTHOR: Razumova, I. N.

TITLE: Parasites of the Aquatic Field Mouse (Arvicola
terrestris L.) in Northern Osetia /K parazitofaune
vodyanoy polevki (Arvicola terrestris L.) Severnoy
Osetii/

PERIODICAL: Uch. zap. Severo-Osetinsk. gos. ped in-ta, 1956, Nr 20,
pp 277-285

ABSTRACT: Although the parasites of this rodent have been the
subject of a number of special studies, this is the
first such investigation which has been made in
northern Osetia. A total number of 43 animals were
caught and studied. The following are the main para-
site groups infesting the aquatic field mouse:
trematodae infest 68.9 percent of the animals,

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14-57-6-12715

Parasites of the Aquatic Field Mouse (Cont.)

spherical worms--4.6 percent, larvae--34.9 percent. The presence of four endoparasites was recorded in this region for the first time. Hamasite ticks were present in 11 species, x-shaped ones--in two, fleas--in five. This was the first record of 15 species of endoparasites to be found in Northern Osetia.

Card 2/2

O. Sh.

RAZUMOVA, I.N.

A new species of mites of the genus *Hirstionyssus* (Gamasoidea, Liponyssidae). Paraz. sbor. 17:45-47 '57. (MIRA 11:3)

1. Severo-Osetinskiy gosudarstvennyy pedagogicheskiy institut.
(Kazbegi District--Mites)

USSR/Zooparasitology - General Problems.

G-1

Abs Jour : Ref Zhur - Biol., No 16, 1958, 72247

Author : Razumova, I.N.

Inst : -

Title : Parasitofauna of the Field Mouse *Prometheonys* Schaposchni-
kovi.

Orig Pub : Parazitol. sb., 1957, 17, 229-236.

Abstract : By dissection of 105 field mice in 1949-1953 in the
Kazbek Rayon of Georgia and the Sadon Rayon of North Osetia,
6 species of endo- and 32 species of ectoparasites were re-
gistered. The highest susceptibility is to ticks and
fleas; in relation to species, the gamasoid ticks (13 spe-
cies) are very diverse. In 7 animals lancet fluke were
found, and in 2, *Cysticercus fasciolaris*.

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Severo-Osetinsky State Pedagogical Institute

RAZUMOVA, I.N.

New species of gamasoid mites of the family Liponyssidae.
Paraz.sbor. 15:339-344 '53. (MLRA 7:5)

1. Kafedra zoologii Severo-Osetinskogo Gosudarstvennogo pedagogi-
cheskogo instituta. (Caucasus--Mites) (Mites--Caucasus)

RAZUMOVA, I. N.

"Rodent Parasites of Northern Osetiya and the Kazbek Region of Georgia." Cand Biol Sci, Inst of Zoology, Acad Sci USSR (Apr-Jun 54). (Vest Ak Nauk, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

REZYMNOVA, G.Y.

Seasonal process of the development of the diapause in ticks
Ixodes ricinus (Herm.) and its stimulating factors. Med.
paraz. i paraz. bit. 31 no. 196-198 Jan-F 1965.

(MIRA 18:8)

I. Institut meditsinskoy parazitologii i tropicheskoy meditsiny imeni
Ye. E. Martensovskogo Ministerstva zdravookhraneniya SSSR, Moskva.

FEDOROVICH, M.M., prof.; RAZUMOVA, I.V.

Improvement of industrial planning in the chemical industry.
Zhur.VKHO 9 no.1:24-33 '64. (MIRA 17:3)

. RAZUMOVA, I.V.

Determining the physiological age and age composition of the natural population of *Dermacentor pictus* Herm. Med.paraz.i paraz.bol. no.1:55-61 '62. (MIRA 15:5)

1. Iz entomologicheskogo otdela (zav. - prof. V.N. Beklemishev) Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye.I. Martsinovskogo (dir. - prof. P.G. Sergiyev) Ministerstva zdravookhraneniya SSSR.

(TICKS)

RAZUMOVA, I.V.

Early growth of females as a factor retarding oviposition in
Dermacentor pictus herm. and D. marginatus Sulz. Med. paras. i
paraz. bol. 29 no. 3:300-308 '60. (MIRA 13:12)
(TICKS)

L 06996-67 ENT(1) IJP(c) AT
ACC NR: AP6021521

SOURCE CODE: UR/0089/66/020/006/0459/0464

53
47
8

AUTHOR: Razumova, K. A.

ORG: none

TITLE: Measurement of plasma energy with the Tokamak apparatus

SOURCE: Atomnaya energiya, v. 20, no. 6, 1966, 459-464

TOPIC TAGS: *plasma installation, stellarator*
plasma measurement, diamagnetism, plasma heating, plasma electron
temperature/T-5 plasma installation, Tokamak stellarator

ABSTRACT: The author describes results of measurements of the transverse energy of a plasma in a 'Tokamak' installation by means of the diamagnetic signal. The theory of the measurement, which is based on local equilibrium between the magnetic and gas-kinetic pressures in the plasma, is briefly described. The experiments were made with the T-5 installation, whose construction is described elsewhere (Atomnaya energiya v. 17, 177, 1964). The instruments and procedure used to measure the change in magnetic flux are also described. The results show that under those conditions when the axis of the current coincided with the axis of the discharge chamber, the electron temperature measured by this method, at pressures

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ACC NR: AP6021521

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(1.5 -- 5) x 10⁻⁴ mm Hg, agree with the temperature calculated from the conductivity, since the longitudinal and transverse temperatures are equal. In those cases when the center of the current flowing through the plasma is strongly shifted towards the internal wall of the chamber, the longitudinal temperature calculated from the plasma conductivity appreciably exceeds the transverse temperature measured by the diamagnetic effect. The transverse plasma temperature increases only up to the maximum of the discharge current. The displacement of the center of the current towards the outer wall of the discharge chamber, which is observed before the development of the instability, cannot be attributed to heating of the plasma. Differences between the longitudinal and transverse temperatures are observed also when the discharges produced at low initial hydrogen pressures. The author thanks L. A. Artsimovich, at whose initiative the experiments were performed, V. D. Shafranov for numerous discussion, Ye. P. Gorbunov and V. S. Mukhovatov for taking part in the measurements of the plasma characteristics, and V. S. Goryachkin and A. S. Kapralov for help with the work. Orig. art, has: 4 figures and 3 formulas.

SUB CODE: 20 SUBM DATE: 08Dec65/ ORIG REF: 005 OTH REF: 001

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L 58336-65 EWT(1)/EPF(n)-2/ENG(m)/EPA(w)-2 Pz-6/Pe-4/Pab-10/Pi-4 IJP(c)

WV/AT

ACCESSION NR: AT5010443

UR/3136/64/000/684/0001/0054

AUTHOR: Artsimovich, L. A.; Gorbunov, Ye. P.; Mirnov, S. V.; Mukhovatov, V. S.;
Razumova, K. A.; Strelkov, V. S.

TITLE: Investigation of ohmic heating of a plasma in toroidal Tokamak installations

SOURCE: Moscow. Institut atomnoy energii. Doklady, no. 684, 1964. Issledovaniye omicheskogo nagrevaniya plazmy v toroidal'nykh ustanovkakh Tokamak, 1-54

TOPIC TAGS: plasma heating, plasma equilibrium, plasma pinch, plasma stability, plasma diagnostics, plasma containment/ Tokamak

ABSTRACT: The authors report the results of a theoretical analysis of the plasma heating process and of the conditions for the equilibrium instability of a plasma loop in toroidal installations of the Tokamak type. The construction of the installations is described and the diagnostic methods are explained. The measurement results show that the macroscopic characteristics of the discharge depend essentially on the controlling transverse magnetic field and on the magnitude of the longitudinal magnetic field. Under optimal discharge conditions, they obtained a magnetohydrodynamically stable plasma pinch with electric conductivity reaching 2×10^{16}

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ACCESSION NR: AT5010443

cgs esu (electron temperature ~ 150 eV). The experimentally obtained lifetime of the charge particles is compared with the value expected in the presence of Bohm or classical diffusion. The prospects of using the ohmic method of plasma heating in Tokamak equipment are discussed. "The authors thank G. G. Dolgov-Savel'yev and V. D. Shafranov for a discussion of the experimental results and procedures, L. L. Gorelik and V. V. Sinitsin for participating with the experiments on the plasma energy balance, E. I. Kuznetsov for help with the optical measurements, and the Tokamak crew." Orig. art. has: 19 figures, 18 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: ME

NR REF SOV: 009

OTHER: 005

Card 2/2